INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018509

	ATION OF SUBJECT MATTER G02B6/12, G02B1/02			
According to Inte	ernational Patent Classification (IPC) or to both national	classification and IPC		
B. FIELDS SE.				
Int.Cl ⁷	entation searched (classification system followed by clased G02B6/12, G02B1/02		:	
Jitsuyo Kokai Ji	tsuyo Shinan Koho 1971-2004 Jit	roku Jitsuyo Shinan Kcho Lsuyo Shinan Toroku Koho	1994-2004 ·1996-2004	
Electronic data b	ase consulted during the international search (name of d	ata base and, where practicable, search te	rms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X Y A	JP 2003-240989 A (Matsushita Industrial Co., Ltd.), 27 August, 2003 (27.08.03), Par. No. [0143]; Fig. 8 & US 2003/0180023 A1	Electric	1-9,13,16, 18-20 1-13,16, 18-21 14	
X ·	JP 2002-365599 A (Agilent Ted 18 December, 2002 (18.12.02), Par. No. [0035]; Fig. 9 & EP 1255136 A3	chnologies Inc.), 2002/0159733 Al	1-9,16-18 1-12,16-18, 21	
X Y	M.D.B. Charlton et al., Mater Engineering B, 1997, Vol.49, pages 155 to 165		1-9,16-18 1-12,16-18, 21	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search "T" later document published after the international filing date or prior date and not in conflict with the application but cited to understant the principle or theory underlying the invention "A" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combinations being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search report		ation but cited to understand nvention cannot be defined invention cannot be dered to involve an inventive claimed invention cannot be step when the document is documents, such combination e art family		
08 March, 2005 (08.03.05) Name and mailing address of the ISA/ Japanese Patent Office		29 March, 2005 (29.03.05) Authorized officer		
Facsimile No.		Telephone No.		

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/018509

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X Y	Steven G. Johnson et al., Physical Review B, 1999, Vol.60, No.8, pages 5751 to 5758	1-9,16-18 1-12,16-18, 21	
X Y	Claude Weisbush et al., IEICE Transactino on Electronics, 2001, Vol.E84-C, No.5, pages 660 to 668	1-9,16-18 1-12,16,18, 21	
Y A	JP 2001-272566 A (Minolta Co., Ltd.), 05 October, 2001 (25.10.01), Par. Nos. [0042] to [0043]; Fig. 2 (Family: none)	1-13,16-21 22-28	
Y	JP 9-5549 A (Sumitomo Electric Industries, Ltd.), 10 January, 1997 (10.01.97), Par. No. [0011]; Fig. 1 (Family: none)	11,12	
A	JP 6-222234 A (Osaka Gas Co., Ltd.), 12 August, 1994 (12.08.94), Par. Nos. [0032] to [0038]; Fig. 4 (Family: none)	22-28	
P,X P,Y P,A	JP 2004-86070 A (Matsushita Electric Industrial Co., Ltd.), 18 March, 2004 (18.03.04), Full text & EP 1394579 A2 & CN 1485629 A	1-10,16-21 11-13 22-28	
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